

## Anti-PERK (Phospho-T982) Antibody

Catalog #	Source	Reactivity	Applications
CPA5833	Rabbit	H, M	WB, IH
<b>Description</b>	Rabbit polyclonal antibody to PERK (Phospho-T982)		
<b>Immunogen</b>	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding T982 of human PERK protein. The exact sequence is proprietary.		
<b>Purification</b>	The antibody was purified by immunogen affinity chromatography.		
<b>Specificity</b>	Recognizes endogenous levels of PERK protein only when phosphorylated at T982.		
<b>Clonality</b>	Polyclonal		
<b>Conjugation</b>			
<b>Form</b>	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		
<b>Dilution</b>	WB (1/500 - 1/1000), IH (1/100 - 1/200)		
<b>Gene Symbol</b>	EIF2AK3		
<b>Alternative Names</b>	PEK; PERK; Eukaryotic translation initiation factor 2-alpha kinase 3; PRKR-like endoplasmic reticulum kinase; Pancreatic eIF2-alpha kinase; HsPEK		
<b>Entrez Gene</b>	9451 (Human); 13666 (Mouse); 29702 (Rat)		
<b>SwissProt</b>	Q9NZJ5 (Human); Q9Z2B5 (Mouse); Q9Z1Z1 (Rat)		
<b>Storage/Stability</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.		

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, CHIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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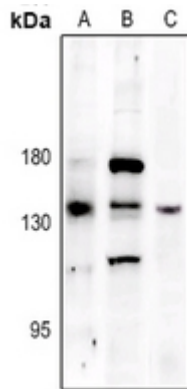
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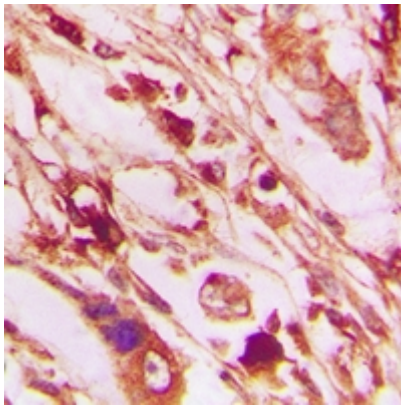
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## Product Data Sheet



Western blot analysis of PERK (Phospho-T982) expression in A375 (A), MCF7 (B), mouse testis (C) whole cell lysates. (Predicted band size: 125 kD; Observed band size: 140 kD)



Immunohistochemical analysis of PERK (Phospho-T982) staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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